IN THE CLAIMS

1. (Currently Amended) A network switch comprising:

a plurality of ports configured for transferring data packets;

an external memory interface configured for transferring the data packets between the network switch and an external memory, the external memory interface including a scheduler for selectively assigning memory access slots of the external memory interface to ports based on respective programmable information entries, wherein

the external memory interface includes an assignment table memory for storing the respective programmable information entries, and

the programmable information entries are stored in the assignment table memory by an external controller.

Claims 2 and 3 (Cancelled)

- 4. (Currently Amended) The network switch according to claim 1, wherein each said programmable information entry includes a port operation code, and the scheduler sets the operation of a port each of the ports based on the port operation code.
- 5. (Currently Amended) The network switch according to claim 4, wherein the port operation code includes one of a read bit and a write bit, the scheduler selectively assigning each of the memory access slots as are one of a read slot and a wire slot, based on the corresponding port operation code.

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- 6. (Currently Amended) The network switch according to claim 1, wherein the programmable information entries include a sequence of memory access slot assignments, the scheduler assigning the memory access slots as a continuously repeating sequence based on the sequence of memory access slot assignments.
- 7. (Currently Amended) The network switch according to claim 6, wherein one of the programmable information entries includes a wrap-around bit at an end of the sequence of memory access slot assignments, the scheduler returning to a first memory access slot of the sequence of memory access slot assignments upon detecting the wrap-around bit.
- 8. (Currently Amended) The network switch according to claim 2 1, wherein the assignment table memory is a RAM.
- 9. (Currently Amended) The network switch according to claim 2 1, wherein the assignment table memory is a group of registers.
- 10. (Currently Amended) The network switch according to claim 1, wherein a each programmable information entry includes a plurality of memory access slot assignments, the scheduler selecting one of the plurality of memory access slot assignments based on one or more detected conditions.

11. (Currently Amended) A method of assigning memory access slots in a network switch to a plurality of network switch ports, each configured for transferring data packets to an external memory, the method comprising:

storing programmed memory access slot assignment information into a memory; and selectively assigning memory access slots to the respective network switch ports based on the programmed memory access slot assignment information;

selectively assigning memory access slots to the respective network switch ports based on the programmed memory access slot assignment information;

selecting a slot-to-port assignment configuration from the programmed memory access slot assignment information; and

writing the selected slot-to-port assignment configuration from the memory to an assignment configuration memory within the network switch, the selectively assigning step including assigning the memory access slots to the respective network switch ports based on the selected slot-to-port assignment configuration stored in the assignment configuration memory, wherein

the storing step comprises setting each slot-to-port assignment within the slot-to-port assign configuration to include one of a read and a write bit for indicating whether a corresponding memory access slot is one of a read and write slot.

Claims 12 and 13 (Cancelled)

14. (Currently Amended) The A method according to claim 12 of assigning memory access slots in a network switch to a plurality of network switch ports, each configured for transferring data packets to an external memory, the method comprising:



storing programmed memory access slot assignment information into a memory;

selectively assigning memory access slots to the respective network switch ports based on the programmed memory access slot assignment information;

selecting a slot-to-port assignment configuration from the programmed memory access slot assignment information; and

writing the selected slot-to-port assignment configuration from the memory to an assignment configuration memory within the network switch, the selectively assigning step including assigning the memory access slots to the respective network switch ports based on the selected slot-to-port assignment configuration stored in the assignment configuration memory, wherein

the storing step comprises setting each the slot-to-port assignment configuration as a repeating sequence of an N number of memory access slot assignments.

15. (Currently Amended) The A method according to claim 13 of assigning memory access slots in a network switch to a plurality of network switch ports, each configured for transferring data packets to an external memory, the method comprising:

storing programmed memory access slot assignment information into a memory;

selectively assigning memory access slots to the respective network switch ports based on the programmed memory access slot assignment information;

selecting a slot-to-port assignment configuration from the programmed memory access slot assignment information; and

writing the selected slot-to-port assignment configuration from the memory to an assignment configuration memory within the network switch, the selectively assigning step including assigning the memory access slots to the respective network switch ports based on the selected slot-to-port assignment configuration stored in the assignment configuration memory, wherein

the storing step includes storing into the slot-to-port assignment configuration a wraparound bit that returns the sequence of an N number of memory access slot assignments to a first memory access slot at a start of the sequence of an N number of memory access slot assignments from an "Nth" memory access slot.

Claims 16. (Cancelled)

- 17. (Currently Amended) A switched network system comprising:
- a first memory for storing a plurality of programmable system settings;
- a second memory for storing data packets;
- a network switch having a plurality of ports configured for transferring the data packets, the network switch including:
 - (1) an external memory interface configured for transferring data packets between the network switch and the second memory; and

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(2) a scheduler for selectively assigning memory access slots to respective each of the ports based on a selected one of the plurality of programmable system settings stored in the first memory; and

a system controller for supplying the selected one of the plurality of programmable system settings to the network switch.

18. (Previous) Amended) The switched network system according to claim 17, wherein the external memory interface includes a memory access slot assignment table memory.

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- 19. (Currently Amended) The switched network system according to claim 17, wherein the plurality of programmable system settings include a port operation code, and the scheduler sets the operation of each of the port ports based on the port operation code.
- 20. (Currently Amended) The switched network system according to claim 19, wherein the port operation code includes one of a read bit and a write bit causing the scheduler to assign the memory access slots as read and write slots, respectively.
- 21. (Currently Amended) The switched network system according to claim 17, wherein the plurality of programmable system settings include a sequence of an N number of memory access slot assignments that is continuously repeated by the scheduler in assigning the memory access slots.

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- 22. (Previously Amended) The switched network system according to claim 21, wherein the plurality of programmable system settings include a wrap-around bit at an end of the sequence and the scheduler returns to a first memory access slot at a start of the sequence upon detecting the wrap-around bit.
- 23. (Previously Amended) The switched network system according to claim 18, wherein the memory access slot assignment table memory is a RAM.
- 24. (Previously Amended) The switched network system according to claim 18, wherein the memory access slot assignment table memory is a group of registers.
- 25. (Original) The switched network system according to claim 17, wherein the first memory is an EEPROM.